

Abstract of the Disclosure

A valve apparatus includes a housing that defines an interior chamber, a liquid that separates the interior chamber into first and second portions, and a sensor. The housing includes first and second ports that communicate with the interior chamber. The first portion of the interior chamber is in fluid communication with the first port, and the second portion of the interior chamber is in fluid communication with the second port. And the sensor detects displacement of the liquid due to a pressure differential between the first and second ports.